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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
AN I Electrication	TIEMO DATE	TIRST WANED INVENTOR	ATTORISET DOCKET NO.	CONTINUATION NO:
10/774,605	02/10/2004	Yukio Kasabo	248554US0DIV	1680
22850 75	590 11/17/2006		EXAMINER	
C. IRVIN MC	·	TENTONI, LEO B		
OBLON, SPIV.	AK, MCCLELLAND,			
1940 DUKE STREET			ART UNIT	PAPER NUMBER
ALEXANDRIA	, VA 22314		1732	

DATE MAILED: 11/17/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

			<del>                                     </del>			
Office Action Summary		Application No.	Applicant(s)			
		10/774,605	KASABO ET AL.			
		Examiner	Art Unit			
		Leo B. Tentoni	1732			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) 又	Responsive to communication(s) filed on 31 August 2006.					
· · · · · · · · · · · · · · · · · · ·	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4)⊠	☑ Claim(s) <u>13-23</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)	Claim(s) is/are allowed.					
6)⊠	Claim(s) <u>13-23</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)[	Claim(s) are subject to restriction and/o	or election requirement.				
Applicati	on Papers					
9)[	The specification is objected to by the Examine	er.				
10)⊠	The drawing(s) filed on 31 August 2006 is/are:	a)⊠ accepted or b)☐ objected	to by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority ι	ınder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.						
	<ul> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> </ul>					
3. Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	nte			
3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application  Other:						
		·				

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## DETAILED ACTION

## Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 22 and 23 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. In claims 22 and 23, the newly-claimed limitation of stretched at 1.1 to 1.5 times is not supported by the originally-filed specification and thus, is new matter.

# Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary.

Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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5. Claims 13-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fujimatsu (U.S. Patent 4,205,037 A) in combination with Lieseberg (U.S. Patent 2,957,748 A).

Fujimatsu (see the entire document, in particular, col. 2, lines 43-61) teaches a process of making an acrylic fiber as claimed, except that Fujimatsu does not explicitly teach drawing (or stretching) filaments in more than one bath, which is taught by Lieseberg (see the entire document, in particular, col. 2, lines 10-36; while Lieseberg uses the term "stretching baths", these baths have a solvent concentration and temperature as the coagulation bath of the instant claim) and would have been

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obvious to one of ordinary skill in the art at the time the invention was made in the process of Fujimatsu in view of Lieseberg principally in order to manufacture acrylic fibers having desired characteristics and/or properties. Furthermore, drawing at a rate of 0.3 to 2.0 times the discharge linear velocity would have been obvious to one of ordinary skill in the art at the time the invention was made in the process of Fujimatsu principally in order to provide a taut filament and to stretch the filament by a desired stretch ratio.

#### Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

- 7. Claims 13-23 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 3, 5, 6, 8, 10, 12 and 14 of U.S. Patent No. 6,641,915 B1 (Kasabo et al). Although the conflicting claims are not identical, they are not patentably distinct from each other because the amount of acrylonitrile polymer (i.e., 80 wt.% or more and less than 95 wt.%) would have been obvious to one of ordinary skill in the art at the time the invention was made in view of Kasabo et al since Kasabo et al claims 95 wt.% or more of acrylonitrile polymer.
- 8. Claims 13-23 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claim 17 of U.S. Patent No. 6,503,624 B2 (Ikeda et al).

  Although the conflicting claims are not identical, they are not patentably distinct from each other because the amount of acrylonitrile polymer (i.e., 80 wt.% or more and less than 95 wt.%) would have been obvious to one of ordinary skill in the art at the time the invention was made in view of Ikeda et al since Ikeda et al claim 95 wt.% or more of acrylonitrile polymer.

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## Response to Arguments

9. Applicant's arguments with respect to claims 13-23 have been considered but are moot in view of the new ground(s) of rejection.

10. Applicant argues (pages 11 and 12) that the subject matter of the instant claims and the subject matter claimed in Ikeda et al and Kasabo et al is mutually exclusive. Examiner responds that the subject matter of the instant claims would have been obvious to one of ordinary skill in the art at the time the invention was made in view of Ikeda et al or Kasabo et al because the upper limit recited in the instant claims (i.e., "less than 95 wt.%") includes 94.999999... wt.% while the lower limit claimed in Ikeda et al and Kasabo et al (i.e., "95 wt.% or more") includes 95.000000... wt.%.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leo B. Tentoni whose telephone number is (571) 272-1209. The examiner can normally be reached on Monday - Friday (6:30 A.M. - 3:00 P.M.).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina A. Johnson can be reached on (571) 272-1176. The fax phone number for the

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organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Leo B. Tentoni

Leo B. Tentoni Primary Examiner Art Unit 1732

lbt